

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for transforming data from a source device color space to a destination device color space, wherein the source device is associated with a source device color profile and the destination device is associated with a destination device color profile, comprising:

transforming data from the source device color space to an intermediary color space associated with an intermediary color profile using the source device color profile, a source rendering intent, and the intermediary color profile, producing intermediary data, such that the source rendering intent determines a method of mapping colors from the source device color space to the intermediary color space; and

transforming the intermediary data from the intermediary color space to the destination device color space using the intermediary color profile, a destination rendering intent, and the destination device color profile, such that the destination rendering intent determines a method of mapping colors from the intermediary color space to the destination device color space.

2. (Original) The method of claim 1, wherein the source and destination rendering intents are different rendering intents.

3. (Original) The method of claim 2, wherein:  
the source device is a printing press to be emulated; and  
the destination device is a proofing printer to generate the output of the emulation.

4. (Original) The method of claim 3, further comprising:  
receiving the data as an output of a graphic arts application.

5. (Original) The method of claim 3, wherein:  
the source rendering intent is a colorimetric rendering intent; and  
the destination rendering intent is a perceptual rendering intent.
6. (Original) The method of claim 5, wherein:  
the intermediary color profile is a CIELAB color profile or a CIEXYZ color profile.
7. (Currently amended) The method of claim 1, wherein the source and destination rendering intents are the same rendering intents, further comprising:  
zeroing-modifying the color components of the intermediary data such that only grayscale colors remain, before transforming the intermediary data.
8. (Currently amended) An apparatus for transforming data from a source device color space to a destination device color space, wherein the source device is associated with a source device color profile and the destination device is associated with a destination device color profile, comprising:  
means for transforming data from the source device color space to an intermediary color space associated with an intermediary color profile using the source device color profile, a source rendering intent, and the intermediary color profile, producing intermediary data, such that the source rendering intent determines a method of mapping colors from the source device color space to the intermediary color space; and  
means for transforming the intermediary data from the intermediary color space to the destination device color space using the intermediary color profile, a destination rendering intent, and the destination device color profile, such that the destination rendering intent determines a method of mapping colors from the intermediary color space to the destination device color space.
9. (Original) The apparatus of claim 8, wherein the source and destination rendering intents are different rendering intents.

10. (Original) The apparatus of claim 9, wherein:  
the source device is a printing press to be emulated; and  
the destination device is a proofing printer to generate the output of the emulation.
11. (Original) The apparatus of claim 10, further comprising:  
means for receiving the data as an output of a graphic arts application, the means  
operable to provide the data to the means for transforming data.
12. (Original) The apparatus of claim 11, wherein:  
the source rendering intent is a colorimetric rendering intent; and  
the destination rendering intent is a perceptual rendering intent.
13. (Original) The apparatus of claim 12, wherein:  
the intermediary color profile is a CIELAB color profile or a CIEXYZ color profile.
14. (Currently amended) The apparatus of claim 8, wherein the source and  
destination rendering intents are the same rendering intents, further comprising:  
means for ~~zeroing~~ modifying the color components of the intermediary data such that  
only grayscale colors remain, before transforming the intermediary data.
15. (Currently amended) A computer program product, tangibly embodied in a  
computer-readable medium, for transforming data from a source device color space to a  
destination device color space, wherein the source device is associated with a source device color  
profile and the destination device is associated with a destination device color profile, the  
product comprising instructions operable to cause a processor to:  
transform data from the source device color space to an intermediary color space  
associated with an intermediary color profile using the source device color profile, a source  
rendering intent, and the intermediary color profile, producing intermediary data, such that the

source rendering intent determines a method of mapping colors from the source device color space to the intermediary color space; and

transform the intermediary data from the intermediary color space to the destination device color space using the intermediary color profile, a destination rendering intent, and the destination device color profile, such that the destination rendering intent determines a second method of mapping colors from the intermediary color space to the destination device color space.

16. (Original) The computer program product of claim 15, wherein the source and destination rendering intents are different rendering intents.

17. (Original) The computer program product of claim 16, wherein:  
the source device is a printing press to be emulated; and  
the destination device is a proofing printer to generate the output of the emulation.

18. (Original) The computer program product of claim 17, further comprising instructions to:  
receive the data as an output of a graphic arts application.

19. (Original) The computer program product of claim 17, wherein:  
the source rendering intent is a colorimetric rendering intent; and  
the destination rendering intent is a perceptual rendering intent.

20. (Original) The computer program product of claim 19, wherein:  
the intermediary color profile is a CIELAB color profile or a CIEXYZ color profile.

21. (Currently amended) The computer program product of claim 15, wherein the source and destination rendering intents are the same rendering intents, further comprising instructions to:

~~zero~~ modify the color components of the intermediary data such that only grayscale colors remain, before transforming the intermediary data.

22. (Currently amended) A method for transforming data from a source device color space to a destination device color space, wherein the source device is associated with a source device color profile and the destination device is associated with a destination device color profile, comprising:

transforming data from the source device color space to the destination device color space using the source device color profile, a source rendering intent, a destination rendering intent, and the destination device color profile, such that the source rendering intent and the destination rendering intent determine a method of mapping colors from the source device color space to the destination device color space.

23. (Original) A computer program product, tangibly embodied in a computer-readable medium, for transforming data from a source device color space to a destination device color space, wherein the source device is associated with a source device color profile and the destination device is associated with a destination device color profile, the product comprising instructions operable to cause a processor to:

transform data from the source device color space to the destination device color space using the source device color profile, a source rendering intent, a destination rendering intent, and the destination device color profile, such that the source rendering intent and the destination rendering intent determine a method of mapping colors from the source device color space to the destination device color space.

24. (New) An apparatus for transforming data from a source device color space to a destination device color space, wherein the source device is associated with a source device color profile and the destination device is associated with a destination device color profile, comprising:

means for transforming data from the source device color space to the destination device color space using the source device color profile, a source rendering intent, a destination

rendering intent, and the destination device color profile, such that the source rendering intent and the destination rendering intent determine a method of mapping colors from the source device color space to the destination device color space.

25. (New) The method of claim 7, wherein  
the intermediary color space is the CIELAB color space; and  
modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the color components A and B to zero.

26. (New) The method of claim 7, wherein  
the intermediary color space is the CIEXYZ color space; and  
modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the values X, Y, and Z to values representing only grayscale colors.

27. (New) The apparatus of claim 14, wherein  
the intermediary color space is the CIELAB color space; and  
means for modifying the color components of the intermediary data such that only grayscale colors remain comprises means for setting the color components A and B to zero.

28. (New) The apparatus of claim 14, wherein  
the intermediary color space is the CIEXYZ color space; and  
means for modifying the color components of the intermediary data such that only grayscale colors remain comprises means for setting the values X, Y, and Z to values representing only grayscale colors.

29. (New) The computer program product of claim 21, wherein  
the intermediary color space is the CIELAB color space; and  
modifying the color components of the intermediary data such that only grayscale colors remain comprises setting the color components A and B to zero.

30. (New) The computer program product of claim 21, wherein  
the intermediary color space is the CIEXYZ color space; and  
modifying the color components of the intermediary data such that only grayscale colors  
remain comprises setting the values X, Y, and Z to values representing only grayscale colors.